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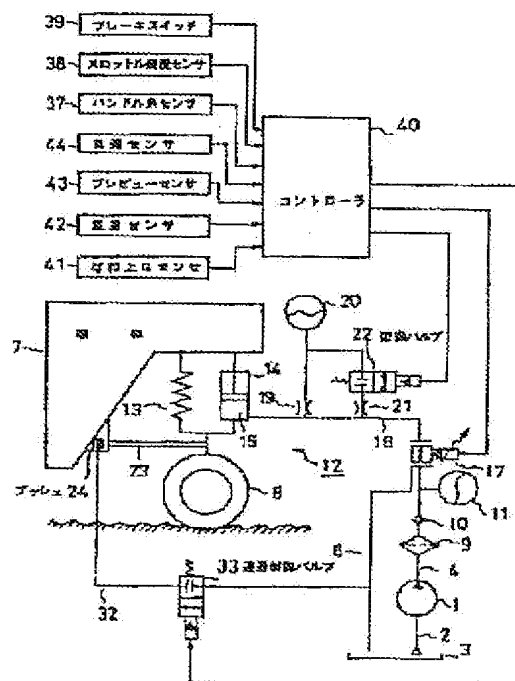
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APPLICANT : MITSUBISHI MOTORS CORP;

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TITLE : SUSPENSION CONTROLLING APPARATUS FOR VEHICLE



ABSTRACT : **PURPOSE:** To make an adequate control corresponding to the vehicle velocity region while improving a ride comfort, by making the elastic-bush rigidity changeable, and calculating the time when the vehicle wheels reach the irregularities on a road surface sensed by a road surface sensor, on the basis of the output from a vehicle speed sensor, to thereby make an estimation control for providing flexible suspension characteristics.

CONSTITUTION: Detection is made of protrusions or level difference on a road surface forward of vehicle wheels, by a preview sensor 43, to cause a controller 40 to control respective operations of an attenuation-force change-over valve 22 and a rigidity change-over valve 33 for a bush 24. When going over the protrusions at a low speed of travel, both the attenuation force and the bush rigidity are weakened to improve the comfort of ride. When going over the protrusions at a middle speed of travel, only the attenuation force is weakened with the bush rigidity being kept high to make the ride comfort and the steering stability compatible. In case of a high speed of travel, the attenuation force and the bush rigidity are kept at a high level to obtain a high level of steering stability.

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